# JAMES GARNER

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## WORK HISTORY

**ENGINEER**
FEB 17 - NOW

🏢 **Beamery Ltd, London**

- Full stack engineering for Beamery, the world's most advanced sourcing and recruitment marketing platform, empowering companies to treat candidates like customers.
- Feature work: Advanced UI for Elasticsearch filtering in AngularJS component architecture. Real time notifications through socket.io, RabbitMQ and Redis. Significant player in the road to CI as well as developing Beamery's own ESLint rules with serverside hooks.
- QA: Established and now owning end-to-end testing practices and framework with Selenium, PhantomJS and Cucumber. Boosting test coverage of public API and directly handling API consumer issues.
- Open Source: Took ownership of Node.js Apache Tika bridge library (6 contributors/93 stars) from The International Consortium of Investigative Journalists.
- Running the first company-wide knowledge sharing session on Natural Language Processing.
- Technical Debt: Dependency upgrades and shift to node.js 8 and beyond.

**ENGINEER**
MAR 16 - FEB 17

🏢 **Sony Interactive Entertainment Europe (PlayStation/SIE R&D West), London**

- Full stack engineering for PlayStation's best-in-class developer support platform.
- Thought leader and individual responsibility for application's long term frontend strategy: build process, dependency management, migration of tightly coupled frontend/backend code to APIs and AngularJS clients, universal JavaScript and ES2015 transpiling.
- Greenfield AWS event-driven architecture API solution architecture with Serverless, CloudFormation, Elasticsearch and SNS. Test-driven development with Mocha, Chai and SuperTest.
- Leading agile planning and sprint reviews, presenting to stakeholders in Japan and America.
- DevOps support: infrastructure-as-code Jenkins rehosting, building a new source-controlled and self-serviced development environment with Chef.
- Successful "innovation time" node.js visualisation project with GitHub/Rally APIs, D3 and Grunt/Browserify/Babel.

**DEVELOPER**
JAN 15 - MAR 16

🏢 **(NDA), London**

- Full stack JavaScript and PHP development visualising complex data sets in D3 and beyond for the world's leading agency groups.
- Co-lead introduction of code reviews, git flow and regular knowledge sharing presentations.

**DATA SCIENTIST**
NOV 14 - OCT 15

🏢 **Relative Insight Ltd, Lancaster**

- Developed Python web scrapers for high profile brands including Oxford University and Smirnoff. Published language normalisation algorithms for forums.

**INTERN**
JUN 14 - SEP 14

🏢 **DataCentred Ltd, MediaCityUK, Manchester**

- Delivered as a pair a customer facing support app in Ruby on Rails and AngularJS within 3 months, reflecting internal JIRA tickets in real-time (still in production). Implemented LDAP support in popular open source project phpipam.

**DEVELOPER**
JUN 13 - MAY 14

🏢 **NextWorldWeb Ltd, InfoLab21, Lancaster**

- Moved large legacy ecommerce systems to CakePHP, CS-Cart and WordPress. Automated WordPress theme creation from any site.

## EDUCATION

2012 — 2015

🎓 **2:1 Computer Science BSc (Hons), University of Lancaster, UK**

Distributed Systems; AI; Advanced Internet & Mobile Applications; Operating Systems & Concurrency; Functional Programming (Erlang/Python); Digital Systems (Pure Mathematics, Assembly, Compilers). First Year German Studies.

## PROFILE

**LEADERSHIP**

💼 **The Computer Science Society:** President (Lancaster, 2014 — 2015)

💼 **InterTech LGBT+ Diversity Forum:** Organiser (London, 2014 — present)

**LANGUAGES**

🌐 **English:** Native   🌐 **German:** Fluent   🌐 **Spanish:** Learning

## COMMERCIAL VENTURES

**DELTA REACT LTD**
MAR 2016 - NOW

- [https://foreverclient.co] Founder of Epsilon Data Ltd offshoot "Forever": "a simple and proven system to boost client engagement and shape long term strategy in a single step".
- End-to-end solution built on existing insight platform enhanced with Twilio (SMS) and SendGrid integrations, hand-trained "Natural Language to Relationship Health" algorithms on top of Apache OpenNLP and MonkeyLearn.

**VARIABLE OUTCOMES LTD**
JAN 2015 - NOW

- [https://epsilondata.co.uk] Technical co-founder of profitable startup in the data science and automated marketing space.
- Lead generation by finding Twitter conversations and replying intelligently through brands' Twitter handles. Test-driven strategy to avoid spambot-like behaviour.
- WYSIWYG landing pages with user tracking from automated tweets through to final website via client-side SDK.
- "Deep Profiles" technology by automatically associating user profiles between LinkedIn, Twitter and Facebook for demographic clustering. PhantomJS crawlers running in parallel.
- One-to-one client mentoring with the UK's leading ethical tourism charity.
- Built API-first strictly RESTful, microservice-based node.js insight platform with single step/0 downtime DigitalOcean deployments through CloudFlare API integration.
- Failsafe API integrations with Twitter, Google Images, Mapbox, GeoNames and Genderize.io.
- 100% self-service and responsive "Client Portal" written from scratch with AngularJS consuming insight platform APIs.
- 100% self-service attractive report generation with impress.js, wkhtmltopdf and Chartist. 2-year old codebase transitioned to modern Browserify, Babel and Sass build pipeline.

**DARK FLOW**
2011-2012

- [https://youtube.com/watch?v=yY3QpVo25lw] Lead developer of true cross platform game maker in a team of 5.
- OS X/Windows/Linux game support through Mono bytecode runner. Browser and mobile game support through native HTML5 and JavaScript generation.
- Also responsible for LAMP work on support portal and accounts system, hosting provider partnership for automated game uploads and sales insight.

**DS GAME MAKER**
2007-2011

- [http://gamemakerblog.com/2010/09/22/ds/] Sole developer of famous Nintendo DS homebrew IDE written in .NET and C.
- Sold over 1,500 serial codes and 350 physical 'Homebrew Kits' by age 17.
- Adopted at American summer camps and site licenses sold worldwide. International logistics work with Hong Kong and support in German and Dutch.

## TALKS, CONFERENCES & HACKATHONS

**SEP 16** ⌨ **Capco Hackathon with Monzo and Loqr**

First Prize. Clustering spend data from Monzo's API to create financial personality profiles delivered by RESTful API (node.js/restify). Tinder-like profile matching client (AngularJS, ES2015). Deployed to DigitalOcean within ~5 hours' keyboard time. Team of 3.

**FEB 16** ⌨ **PHP UK Hackathon**

Second Prize. Real time websocket powered Twitter sentiment analysis "topic battle" with MonkeyLearn, Pusher, AngularJS and HTML5 canvas tag clouds.

**NOV 14** ⌨ **Global Startup Weekend 2014**

First Prize. One line JavaScript plug-in for reputation based comments, quantifying personality to eliminate on-line trolls. Team of 4.

**NOV 14** 🎤 **Nintendo DS Homebrew, 2014 Edition**

Speaker at DunDDD conference, University of Dundee. "Adventures in the retro Homebrew Scene" and live demo of writing Nintendo DS homebrew.

**APR 14** 💬 **InfoLab21 Showcase (University of Lancaster)**

Presented personal research "Geosocial Networking Security" alongside PhD students, looking at reverse engineering of Grindr to automatically find user locations.

**MAR 14** ⌨ **Hack Smart Streets 2014 (University of Lancaster)**

'Most Commercially Viable' Prize. API for public bodies to detect decaying street furniture from crowdsourced imagery using ffmpeg and .NET image analysis. Team of 4.

**AUG 13** ⌨ **LeedsHack 2013**

First Prize. Mobile AR game 'Pacman City' on Google Maps. Team of 3.